Subject: Re: 'loop limit expression too large for loop variable type' error
Posted by pgrigis on Tue, 31 Aug 2010 21:27:42 GMT

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On Aug 30, 12:56 pm, Jeremy Bailin <astroco...@gmail.com> wrote:
> On Aug 30, 11:58 am, Chris Torrence <gorth...@gmail.com> wrote:
>
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>
>> On Aug 30, 9:47 am, Paulo Penteado <pp.pente...@gmail.com> wrote:
>
>>> On Aug 30, 12:36 pm, Snow53 <jennifer_wa...@hotmail.com> wrote:
>
>>>> My code runs great on small data sets, but I'm trying to use it for
>>>> larger sets and I've started getting an
>>>> "loop limit expression too large for loop variable type' error when I
>>>> reach the "for j=0, num_ids-1 do begin". Why is this happening and
>>>> how can I fix it?
>
>>> It appears that num_ids is 2^16 or larger, which would overflow the
>>> loop variable initialized with the type int. Use instead
>
>>> for j=0L, num_ids-1
>
>>> Or add at the beginning
>
>>> compile_opt idl2
>
>>> or compile_opt defint32
>
>>> Assuming it would fit into a long (2^32).
>
>> Or you could upgrade to IDL 8.0, which automatically promotes the loop
>> variable to a long or long64 if the loop limit is greater than the
>> maximum value for the loop variable. If it isn't greater than the
>> maximum, then it leaves it alone.
>
>> Cheers,
>
>> Chris
>> ITTVIS
>
> Damn, that's going to seriously erode my perceived guru status, since
> easily half the questions I get boil down to this issue! ;-)
>
> -Jeremy.

Wow - it really starts to look like now *everybody* will be able to

use IDL right off the bat... unless we work hard to press ITT into introducing a few new additional obscure features designed to baffle the IDL noobs!

In the meantime I suggest we start feeding IDL noobs programs like the following in order to save the last scraps of our claims to elitism...

```
execute='(i=execute("'&execute=execute(execute+'"'+$
'))--')&i$1i='print'&i1$i='scope_varname'&i2$i=' s'+$
'trtrim'&i$i='i'&i$i=i$i+'$i=('+i2$i+'('+i1$i+'(' +$
 i$i+')'+','+i$i+'+++1))[0]'&execute=execute(i$i)&i=$
' for '+i$i+' = '&execute=execute('i2$i='+i2$i+'('+$
call_function(i2$i,execute) +',2)')&execute=i+i2$i+$
','+i2$i+i2$i+' do '+i$1i+','+i$i
execute=execute(execute)
```

Ciao,
Paolo